

An Essay  
on  
Conception.

Among the various subjects of Medical science, which for centuries past, have engaged the attention of man, none has excited more <sup>the</sup> his interest & curiosity, than that of animal conception or fecundation. And probably no subject in the physical world, has caused more ingenious hypothetical speculations, than that which is the theme of the present dissertation. I say hypothetical speculations, for to use the words of the Scandinavian Sydenham, "all beyond a certain sphere in this subject must be conjecture." But conjecture here as well as on other obscure subjects is not only admissible, but even commendable. This however is not again to be founded upon conjecture, but if possible to be deduced from facts & experiments; from experiments not incompletely or partially made, but from those performed by a hand conducted with all imaginable,



society & attention. But unfortunately, experiments can  
not possibly made, to conduct us far on this hazy  
path, interspersed with roses; & for this deficiency we  
are willingly led to embrace conjectures.

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These difficulties however which hover around this glo-  
omy subject should not in the least intercept our experi-  
mental enquiry, & if any one should say its want of  
practical utility, should render it less worthy the object of  
our attention, I would only reply to such an objection, that  
the practical use of us our facts can be ascertained, until  
the fact itself be known. This then instead of becoming a  
barrier, should indeed become a stimulus to our exertions.  
On the subject now before us, a vast deal still remains to  
be learned, & when I say it is a physiological point wor-  
thy of meditation, I say it without any apprehension of  
contradiction; for all the faculties & operations of the  
body, nay even life itself must be traced back to that  
period when from a rude, lifeless & chaotic mass, was  
breathed into existence one of the greatest & most choice

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productions of nature. These considerations must have  
well excite the admiration of the lovers of physiology  
& philosophy, & render it a subject worthy of their  
examination. It is not to be expected however (let  
my love for the subject be ever so great) that my  
weak pen, conducted by so feeble a hand, should shed  
much light on the matter now under consideration, par-  
ticularly when we reflect that the laboured productions of  
the ingenious & the great have still left it to be considered  
as one of the Arcana of nature.

I intend in the prosecution of this essay, first, to say  
a few words on the anatomy & physiology of some of  
the female parts of generation, then in the second place  
consider some of the latest & most predominant theories  
of conception & in the third & last place with diffidence  
offer my own ideas on that subject, as shown from reading  
& observation. I shall in the whole consult as much brevity  
as will my ways be consistent with the object of the paper.  
I am thus agreeably to the order proposed, in the first  
place, to say a few words on the Anatomy & Physiology of

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Some of the female parts concerned in this important group.  
The first thing here, which would appear naturally to  
engage our attention is the Uterus. This viscus seems to  
perform the most important part in the operation of op-  
erations. The Uterus is a hollow muscle situated in the  
cavity of the pelvis, between the bladder & the rectum,  
& held in that situation principally by means of four  
ligaments, called lata & rotunda. It has been compared  
in its unimpregnated state, to a pear somewhat flattened  
before & behind, with what is called its neck, lying most  
inferior & terminating in what is called the vagina, with  
an open mouth. The Uterus is of considerable thickness  
(varying however in different ages) & endowed, of course,  
with no little of that power inherent in muscles, denom-  
inated by physiologists contractility. This viscus has  
received several divisions, as, body, fundus, neck, & angles.  
The two parts denominated (but I think improperly) the  
superior angles, are perforated by two ducts, which will  
easily admit a hog's bristle. These ducts are the Sal-

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again tubes of Anatomists. They are two conical tubes  
with their apices turned towards the uterus & termina-  
ting in the other extremities by fimbriae or fringes.  
These ducts run through the ligamenta lata which  
are duplicatures of the peritonaeum, & while some of these  
fimbriae lay loose in the cavity of the pelvis, others come  
in contact & are firmly attached to two bodies denomin-  
ated the ovaria. The last mentioned bodies are of whi-  
tish appearance & oval shape & situated on each side  
of the fundus of the uterus. They are connected to the  
uterus by a kind of short ligament & the ligamentum  
latum on each side. These bodies are placed between  
the laminae of the ligamenta lata. They are composed of  
several little holes or punctations & are called  
so from their shape & supposed function the ova. The  
number of these ova, are different according to different  
anatomists, but the truth of the matter is that they  
vary in different women & in the same woman at dif-  
ferent times. Conception always diminishes the number,

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from the circumstance the fluids of these ova were  
very justly supposed, to be the rudiments of fetuses.

The Vagina the last genital part, upon which I  
have any thing to observe is a canal leading down  
from the neck of the Uterus to the opening in the  
external parts of generation, which has received the  
name of vulva. This canal may be considered as  
musculo membranous & divided between the Rectum  
& Bladder above, & between the urethra & rectum  
below. In the young virgin both & particularly in  
the foetus, a kind of partial partition is made between  
the internal & external parts of generation, by a circular  
membrane called by Anatomists the Hyman. This  
however begins to diminish as the subject advances  
in years for the transmission of menstrual blood, &  
probably for the admission of the seminal fluids,  
to the Uterus.

At that period of the female life denominated  
by Medical men puberty, considerable changes take  
place in this delicate system, by which venereal

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desires an excited <sup>at the period</sup> ~~thirst~~, while <sup>time</sup> it is <sup>it is</sup> ~~inclined~~ <sup>inclined</sup> to the object of love to the male. This is the period at which the hair begins to pullulate on the pubes, the breast to distend & be clad with all that beauty that our imaginations are capable of picturing. But of all the phenomena which occur at this critical period of the female life, none has so much described our curiosity, or that of masturbation. This consists of a periodical discharge of fluid matter from the Mamms. In consequence of this discharge, resembling the blood only in colour, it has been ~~supposed~~ <sup>supposed</sup> as many mist to be blood but a secretion from that fluid. It is not however the object of the writer of this paper, to enter into an examination of the plausibility or improbability of this or any other theory, nor of the causes of this wonderful phenomenon, but he only wishes to observe that the final cause, or to speak more correctly I think, the immediate design thereof, is to prepare the uterus for impregnation. This Proposition is indeed very probable from many facts, all which converge as in a focal point, to prove that conception seldom takes place immediately after masturbation, than at any other time. This I will remark with respect to an account to the consideration of the period part of an Essay, which

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was to consider some of the latest & most predominant  
Theories of conception.

The first Theory then upon which I would venture to  
cast a reflection, is the theory of Dr. Darwin. The writ-  
ings of this philosopher & physician have roused the  
admiration of the world. And among the various obscure  
subjects which he has attempted at elucidation of, that  
which now under our immediate notice was not the least  
important. Not equally important for the fame of Darwin,  
as for medical Science, his genius carried him beyond experi-  
mental discovery, & was the sole cause of his absorbing  
in the vortex of his own imagination. His ingenious author  
sings and, that the father presided in the Mole, & that the  
Placenta was only designed to act as a new tool & medium  
of nourishment for it. The Doctor was led to the adoption  
of this opinion, principally from two reasons; first, that  
living anasarcules, by microscopic vision, were proven  
to exist in the human vasculature; & secondly, that by being  
raised from this degrading position, the part of the  
male, concerned in this important process, he placed the  
two sexes upon an equal footing with each other in the  
propagation of our species, the most important function in the  
animal economy. This theory, as handsome as it may appear  
when to the eye alone first viewed, as delineated by the hand  
of Darwin, falls upon a more scrutinous examination, presents

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us with many, unanswerable objections. If the uterus, as this  
writer supposes, was only to act as a seat, & a mother to this  
little woman in the form, then a question would naturally  
arise, if this woman - Where can be the necessity of this  
woman, traveling or being put up before to the ovaries, beyond  
its place of destiny? And that this is the case is proven  
by many extraneous conceptions. I am already aware that  
the advocates of the Dacconian theory, or rather the theory of  
Kamm & Schenck, for they just agitated it, will attempt  
a disproof of this difficulty by supposing that the first  
menstruation, but the tender little offspring must receive, was  
to be derived from the fluids in the ovaries, & that hence we  
could easily see the necessity of such a journey. But such  
a supposition, however ingenious, I am induced to reply, but  
it is hardly probable that nature would send this patient  
queen in pursuit of its own food, but that she in person  
would feed its maintenance down to the uterus, then to meet  
with & be received by this little homunculus; particularly  
when we consider that it would again have to return to  
the uterus its destined port until after parturition. But let  
us for a moment pass on this & see if we find any difficulty,  
as held to our minds it has long been observed, & I think with  
truth, that what proves too much, proves nothing at all.  
This unhappily was the misfortune, in thus throwing this subject.

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To conclude that *fatness* persists in the male, because  
living worms were discovered in his *semen*, is to conclude  
that *viscera* & many other fluids were also filled with pre-  
existing *fatness*; for *viscera* & other fluids possess the same  
kind of living animalcula. This argument then of Darwin  
while instead of corroborating his favourite theory, rather  
detracted from its plausibility, presents us at the same  
time with a happy example of his *bold* deductions, when  
carried beyond the limitation of judgment, by his electric  
imagination. Not to conclude, however, from the experiments  
of *Galvani* have proven beyond the least shadow  
of ambiguity, that in  *frogs*, the *Electric* exists in the female  
& hence, by analogy, we would conclude, that the same  
order of nature was observed in animals of a higher sphere.  
Then, together with many other objections which might be  
made, as the extravagant hypothesis of *fatness* &c. have no  
doubt on my mind of the *utility* of this theory.

The opinions of *Bohannon*, *Imperialis* & *Arcton* are  
also too inconsistent with our present advanced state of  
knowledge of *Physiology*, to stand in need of a refutation;  
we need, that knowledge alone sufficiently refutes the whole.  
And the *alchemical* doctrine which for a long time caused  
such a clamor both at home & abroad, is equally in error.

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to merit the least of our attention. Of late, however, the  
would not struggle with any of these hypotheses deter-  
mined to prosecute this subject with redoubled ardour.  
And were I to attempt a consideration of all these opi-  
nions, this intended first paper, would not only be  
swelled to the size of a large volume, but I should  
feel myself completely inadequate to the task, even were  
I distinguished with all that time which the notes of the  
Subject would necessarily require; I should indeed  
find myself involved in a labyrinth from which  
by my own exertions I could not be easily extricated.  
I shall therefore in the sequel only attempt the examina-  
tion of two of the latest & most cogent of these  
doctrines. The first of these to which my attention  
shall be directed is the theory of absorption. The  
principles & properties of this theory are divided into  
two classes; the one of which purveys, that is a  
direct communication, between the vagina & ovaria, by  
direct absorption; the other that the semen being absorbed  
from the vagina is furnished to the ovaria only this

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of description, altho its grasp on ability & the  
facts on which it is built many & formidable, still  
is rendered somewhat ambiguous from many other equa-  
lly well known facts & observations. But how let  
me pause, - is not our renowned father D.R. a believer  
in this doctrine? Yes he is. And I then again I say  
venture to offer a single objection against a view for  
a moment to doubt its accuracy. Yes, I am not only  
entirely of the do, but what is still better, I am  
stimulated to it by that very convincing expression of that  
philosopher himself, "that I am happy to see the truth  
investigated even at the expense of a reputation of the  
truth of a laborious perception". The first argument in sup-  
port of this doctrine is that extraneous portions have be-  
come upon dissection, where the cavities of the folio-  
lar tubes were completely obliterated. This we do  
not pretend to deny or doubt, for we believe it to be  
a fact; but our explanation of this acknowledged

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fact is very different indeed from the explanation given by <sup>13.</sup>  
those who advocate the doctrine of absorption. We believe that  
this obliteration of the foetal vein takes, in those cases took place  
after impregnation or fecundation of the ova; or in other  
words, that conception was antecedent to the destruction of these  
canals. Does this extinction generally accompany? Is it  
not by inflammation uniting these veins together? This  
being admitted, is it not very probable then that this  
inflammation took place during the venereal congress from  
some preternatural excitation, or some unusual stimulus  
applied to him at this critical moment? It is not the  
affirmation of both these interrogations rendered probable  
from a species of inflammation always being present in the  
arteries during the venereal congress? These questions I will  
not take upon myself to answer, but leave them entirely  
to the decision of the candid reader himself. The next  
fact which leads them a step towards the absorption of this  
thrombus was that the woman has been found complete  
in the last months of gestation. Is this proof being

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argument, I must reply, that the membrane called the hymen  
 does not form a complete partition between the external  
 & internal parts of formation; but that there is a hole or  
 perforation in the middle thro' which the foetus must  
 have passed. But even for the sake of argument  
 let us admit that cases of pregnancy may sometimes occur  
 when there is not the least perforation in the membrane;  
 yet this does not prove that there was none during the  
 previous action of cohabitation; for it is a well known  
 fact that membranes may be destroyed & again renewed.  
 And the membrane now under our contemplation has been  
 particularly noticed for its liability for regeneration after  
 laceration. And when we consider the very great exertions  
 which must be made by the penis of the male while  
 it is thus engaged in the arduous of the venereal embrace,  
 we cannot but conclude, that the hymen must have  
 been rent in penis is action, & that those cases of a  
 perfect hymen in the last stages of gestation can only  
 be explained on the principles we have here adopted.

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The arguments or facts which I have mentioned are the principal ones in favour of the doctrine of absorption, & I do not think it necessary to enter into an examination of those of small importance.

The other theory of which I treated is the theory of sympathy. Whenever any difficulties occur in the explanation of any of the phenomena of the animal machine, we immediately call in the aid of sympathy. This however is something of which we, at least I know very little about, the amount however of this sympathetic doctrine is that the brain musculature produces a peculiar action on the vagina & thus the medium of sympathy the ovum takes on a similar action, by which one out of the ova is selected & set for impregnation is found, then up by the fallopian tubes & deposited in the uterus. The basis on which this theory is founded is the same as that on which the doctrine of absorption built; And what was then said explanatory of those facts, is also applicable on the present occasion. It may be said that I have only explained those facts up on which the theories of absorption & sympathy rest, differently from those who

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who advocate those doctrines, but that I have given no opportunity to this mode of explanation. This I acknowledge, but an attempt to this I had made when I came to these and my own ideas on that curious question are well conceived. And to this I now wish to call your attention. My ideas on this subject, however are not original, but are very nearly the ideas of the illustrious Haller. I schedule of these I shall just be giving, & then my reasons for embracing them.

The first position which I would wish to lay down, is that it is very probable, that conception takes place in the ovum. The second, that the rudiments of the foetus or the foetus itself is embryo, preexists in the female ovum. Third. that the seminal fluid perfects their rudiments or it already perfect excites in him the principle of life. Fourth that the semen is applied to the ovum thro' the medium of the fallopian tubes, & that this contact of the semen with the ovum is absolutely necessary for conception. Fifth & last, that the ovum thus impregnated is carried down &

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I deposited in the uterus, thus, to receive its future nourishment & growth.

The first position which I have made is rendered highly probable from the well known fact that fetuses are often found upon dissection in the ovum, abdominal & placental tubes. Now if the uterus or matrix before was the seat of conception, this would never or very rarely occur; but the frequency of extra-uterine is very remarkable of the idea I have suggested, & again it is also probable the ovum is the seat of conception in man because it is evident that the ova of Birds are fecundated in their ovaries or recusum vitellinum. The second opinion which we have advanced is placed beyond the limits of proof, for all our ideas on this subject are drawn from analogy & analogy can never prove any thing; but as this analogical reasoning is a lead to believe that the position is well founded; for the celebrated Spallanzani has certainly proven this to be the case with the ova of Frogs, & it is highly probable, that nature has supplied the higher class of animals to the same laws which govern the inferior order in the

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The third opinion, which we laid down, operates very  
much on the one immediately preceding; & if we adopt  
the one we will be necessarily led to the adoption of the  
other.

The fourth thing to be demonstrated, is the manner in  
which the ova are impregnated, this is the point on which  
all the disputes of late have hinged. Is it necessary for the  
sperm to be in contact with the ovum? And if it is how  
does it come to this? Each of these questions I have already  
answered in the affirmative, & it now remains for me  
to annex a few of those reasons, which have influenced  
me in my answers. In the first place then, The Abbe  
Spallanzani has shown by his experiments, that in the pen-  
etration of the eggs of frogs, that the seminal juice was  
actually required to be in contact with them, & from this  
we may infer, that the same thing may take place in the  
other mammalia. Again, we presume that the sperm

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does come in contact with the ovaries in conception, & that it is <sup>19.</sup>  
conceivable that by means of the fallopian tubes, because the dis-  
section of women who have died in the act of coition, have shown  
the uterus & Fallopian tubes distended with sperm. Cases of this  
kind are mentioned both by Keyser & Christman & is certainly  
a strong argument in corroboration of the theory I have advanced.  
But my preceptor Dr. Amos Rice, not satisfied with this, deter-  
mined to put the thing to the test of experiment. In order to  
the accomplishment of his design, he took a young sow and  
castrated her. Having made an incision thro the abdominal  
muscle, and peritoneum, which laid bare the Fallopian  
tube, he made an incision thereof, of about a half an inch,  
from each near their middle, without disturbing in the  
least either of the ovaries. The external wound being  
united, she was again introduced into the company of  
several other males. The uterus evidently was not des-  
troyed or in the least diminished by the operation,  
and altho she frequently received the embraces of the  
male, yet she never afterwards conceived or brought forth.

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This is not a solitary case in point - for it has often  
been performed by Doctor Keen from the year 1795 to  
the present, and with the same result. These very  
interesting experiments of Doctor Keen's, I am sure,  
have very great influence on the minds of every un-  
prejudiced person. But what do these experiments  
prove? Do they not prove, that the former must  
some in contact with the ovum in conception? and  
that it is carried to them by the fallopian tube?  
What they do - for if conception was performed  
by absorption, either direct or indirect, it would have  
taken place here equally as well, as if the fallopian  
tubes had been complete, and extra-uterine gestation  
would have been the result - The human ovum is not the  
case, as was proven by dissection - Again if it was  
brought about by sympathy, could it not have taken place  
equally well under these circumstances? My Perceptor as  
well as my self, were both aware of an objection which might  
have been offered; namely, that the sympathy between the  
uterus & ovum was continuous & by cutting out a portion of

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the tubes, we took away the medium of connection between them,  
& thereby prevented, that syngogostic operation of the ovaries neces-  
sary for impregnation. Dr. Hall is now to put the just weight  
of this objection, determined to upset his experiments, somewhat  
modestly. This was effected by taking a pair, laying bare the  
follicular tubes & simply making an incision into them, by which  
means a cicatrix which entirely destroyed the continuity of these  
tubes I rendered the animals as in the former experiments com-  
pletely fertile. I think here it was plainly proven that syngogosty  
alone, could not perform so great an action, for if it could it  
would have been accomplished in those cases, for the supposed  
medium of connection was still unimpaired. It is here by the theo-  
ry we have advanced, we assign to the follicular tubes a  
two fold office, of carrying the sperm to the ovaries, & the im-  
pregnated ovum to the uterus; but this is no more than what  
is ascribed by Dawson & others to every part of the abdominal  
Pleura. Is the sperm taken into the follicular tubes by capillary  
attraction? Or is it thrown into them by the sperm moving the  
tubes into violent contractions?

The last thing to which I would wish to call your attention  
is that the impregnated ovum is taken up by the follicular tubes

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deposited in the uterus, thus to receive its portion would seem to  
imply, I am induced to believe this first, from gestations being  
sometimes found in the tubes themselves; second, that it is so, we infer  
from the progress of eggs in both, down to the uterus by these tubes.  
Third, that if the follicle is formed or even has encased in the ovum  
in the ovaries it is then found in the uterus, that it must follow  
a *receptaculum*, that it must have passed thro' these tubes  
since there is no other avenue thro' which it could have passed.  
That the gestation thus conveyed into the uterus, & the revision its  
nourishment from the mother is acknowledged by all. But the  
manner in which this performance has not been satisfactorily  
demonstrated by any one. Is it from real inhibition of the  
uterus, or is it from superficial obstructions of the  
ovum? Does the gradual diminution of this liquor render  
any of these opinions probable? Or is this movement of the  
ovum carried on by the umbilical chord, or is it by the  
whole reach of the modes in conception? These interrogatories  
may leave to refer to the candid reader himself for an answer.  
I, as I feel myself in competition to the task. With these  
few remarks I submit with quite diffidence this  
but a imperfect essay, to the examination of my beloved  
Professors, from <sup>whom</sup> I with gratitude acknowledge I have received  
greater part of the knowledge on this & all other medical subjects.  
Blau. H. Robin.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



An inaugural Dissertation

on Conception

by John H. Quinn

1814.

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of John A. Luther

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